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While the foregoing description includes details which will enable those skilled in the art to practice the invention, it should be recognized that the description is illustrative in nature and that many modifications and variations thereof will be apparent to those skilled in the art having the benefit of these teachings. It is accordingly intended that the invention herein be defined solely by the claims appended hereto and that the claims be interpreted as broadly as permitted by the prior art.

What is claimed is:

1. A cable assembly, comprising: an electrical connector comprising an insulation housing and a plurality of terminals receiving in the housing and each of which has an tail exposed out of the housing; a flat cable; a flexible printed circuit electrically connecting the flat cable to the electrical connector, and comprising a vertical connecting portion connected to the terminals of the electrical connector and a horizontal connecting portion separated from the vertical connecting portion and connected to one end of the flat cable; and a spacer fastened on the electrical connector for supporting the flexible printed circuit; wherein said flexible printed circuit further comprises a gradient connecting portion connecting the vertical connecting portion to the horizontal portion; wherein said spacer comprises a first vertical receiving space receiving the horizontal connecting portion of the flexible printed circuit and the end of the cable, a second receiving space receiving the gradient connecting portion; wherein said spacer comprises a passageway connecting the first receiving space to make the cable extend out the spacer, and the passageway, the first receiving space, and the second receiving space are arranged along a lengthwise direction; wherein said horizontal connecting portion of the flexible printed circuit comprises a plurality of pads arranging in a line and a lengthwise grounding portion separated from the pads.

2. The cable assembly as claimed in claim 1, wherein said insulation housing comprises a pair of fastening poles arranged on two sides of the terminals, the vertical connecting portion of the flexible printed circuit comprises a pair of fastening holes corresponding to the fastening poles and the spacer comprises a pair of fastening troughs arranged on two sides of the second receiving space and corresponding to the poles, said fastening poles can pass through the fastening holes and be received in the fastening troughs for fixing the spacer to the electrical connector.

3. The cable assembly as claimed in claim 1, wherein said cable comprises a plurality of coaxial cables and a plurality of wires, said each coaxial cable comprises an inner conductor connected to its corresponding pad and an outer conductor connected to the grounding portion, the wires comprises a plurality of power wires connected to their corresponding pads and a plurality of grounding wires connected to the grounding portion.

4. The cable assembly as claimed in claim 3, wherein said horizontal connecting portion further comprises a pair of holes arranged between the pads and the grounding portion, the spacer has a pair of columns formed in the first receiving space thereof and corresponding to the two holes, the col-

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umns can insert into the two holes of the horizontal connecting portion to fasten the horizontal connecting portion on the spacer.

5. The cable assembly as claimed in claim 1, further comprising a first cover over-molded on the flexible printed circuit, the spacer and the end of the cable, the insulation housing of the electrical connector comprising a pair of receiving grooves respectively arranged on an upper surface and a lower surface thereof, the first cover comprising a pair of fastening arms fixed in the receiving grooves.

6. The cable assembly as claimed in claim 5, further comprising a second cover over-molded on the first cover to cover the insulating housing and the first cover.

7. The cable assembly as claimed in claim 1, further comprising a strengthening board located between the horizontal connecting portion of the flexible printed circuit and the spacer.

8. The cable assembly as claimed in claim 1, wherein said vertical connecting portion of the flexible printed circuit comprises a plurality of holes corresponding to the terminals for make the terminals pass through the hole and electrically connected to the vertical connecting portion.

9. A cable connector assembly comprising:

an insulative housing defining a front mating face and a rear mounting face away from the front mating face; a plurality of contacts disposed in the housing with mating sections and tail sections respectively around the front mating face and the rear mounting face; a flexible printed circuit board positioned behind the rear mounting face and having a front portion soldered to the tail sections of the contacts, and a rear portion mechanically and electrically connected to a plurality of wires;

a spacer attached to the housing and retaining the rear portion of the flexible printed circuit board; and an insulative cover enclosing the spacer and the flexible printed circuit board, and attached to the housing to cover the rear mounting face; wherein the front portion of the flexible printed circuit board extends vertically while the rear portion of the flexible printed circuit board extends horizontally and perpendicular to said front portion; wherein the spacer includes a post extending through the rear portion of the flexible printed circuit board for positioning the flexible printed circuit board to the spacer.

10. A cable connector assembly comprising: an insulative housing defining opposite front mating face and rear mounting face; a plurality of contacts disposed in the housing with mating sections around the mating face and tail sections around the mounting face; an insulative spacer attached to the housing; a flexible printed circuit board defining a front portion intimately abutting against the rear mounting face to mechanically and electrically connected to the tail sections, and a rear portion which is retained and supported by the spacer to mechanically and electrically connected to a plurality of wires; and an insulative cover enclosing the spacer, the flexible printed circuit board and the rear mounting face of the housing; wherein said rear portion of the flexible printed circuit board extends perpendicular to said front portion of the flexible printed circuit board; wherein the front portion of the flexible printed circuit board is sandwiched between the rear mounting face and the spacer.

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